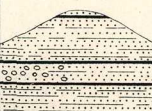
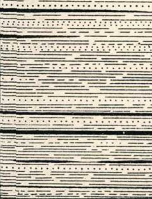

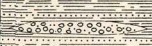






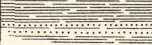
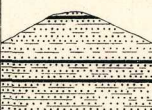
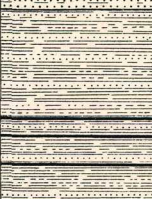













COLUMNAR SECTION SHEET

GENERALIZED SECTION FOR THE NORTHERN HALF OF THE RALEIGH QUADRANGLE. SCALE: 1 INCH = 1000 FEET.						
PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOIL.
CARBONIFEROUS	Charleston sandstone.	Cch		500+	Coarse sandstone with several thick seams of coal. Contains some conglomerate in the ridge north of Lawson.	Caps the summits of Guyandot, Pond, and Paint mountains.
	Kanawha formation.	Ck		1000±	Sandy and argillaceous shales and soft sandstone with numerous seams of coal, many of which are of workable thickness. Grades imperceptibly into the Sewell formation, except in the vicinity of Oak Hill.	Forms the rough mountainous region in the northwest corner of the quadrangle. Soil is thin and slopes are too steep to be cultivated.
	(Nuttall sandstone lentil.)	(Csn)		(0-200)	Massive sandstone or conglomerate.	The Nuttall sandstone forms high cliffs in the vicinity of Oak Hill. Soil is very sandy.
	(Harvey conglomerate lentil.)	(Csh)		(0-50)	Massive conglomerate.	Forms slopes of most of the uplands about Oak Hill, Beckley, and Trap Hill.
	Sewell formation.	Cs		600-625	Sandy and argillaceous shale and sandstone. Sewell coal near the base.	Surface rolling and well disposed for farming. Soil is thin and poor.
	Raleigh sandstone.	Cr		75-150	Coarse sandstone or massive conglomerate.	Makes prominent cliffs along New River in the vicinity of Quinimont.
	Quinnimont shale.	Cq		180-200	Sandy shale. Beckley coal at the top and Quinnimont coal at the base.	Forms steep slopes along New River and its tributaries.
	Thurmond formation.	Ct		450-550	Sandstone and shale.	Forms steep slopes along New River and its tributaries.
	Bluestone formation.	Cbl		180	Red and green shale and soft green sandstone.	Forms steep slopes along New River and its tributaries. Soil good.
	Princeton conglomerate.	Cpr		0-50	Coarse conglomerate.	Cliffs along New River above McKendree.
	Hinton formation.	Chn		450+	Red and green shale with beds of sandstone and impure limestone.	Forms steep slopes along New River and its tributaries. Soil good.

GENERALIZED SECTION FOR THE SOUTHERN HALF OF THE RALEIGH QUADRANGLE. SCALE: 1 INCH = 1000 FEET.						
PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY AND SOIL.
CARBONIFEROUS	Charleston sandstone.	Cch		500+	Coarse sandstone with several thick seams of coal.	Caps the summits of Guyandot Mountain.
	Kanawha formation.	Ck		1000±	Sandy and argillaceous shales and soft sandstone with numerous seams of coal, many of which are of workable thickness. Grades imperceptibly into the Sewell formation.	Forms the rough upper slopes of Guyandot Mountain. Soil is thin and slopes are too steep to be cultivated.
	Sewell formation.	Cs		650-700	Sandy and argillaceous shale and sandstone.	Forms slopes of most of the upland about Beckley, Trap Hill, and McGraw.
	(Harvey conglomerate lentil.)	(Csh)		(0-50)	Massive conglomerate.	Surface rolling, about Beckley and Trap Hill. Soil is thin and poor.
	(Guyandot sandstone lentil.)	(Csg)		(0-100)	Coarse sandstone or conglomerate.	
	Raleigh sandstone.	Cr		75-150	Coarse sandstone.	Plateau surrounded by cliffs east of Beckley; not prominent in Guyandot Valley.
	Quinnimont shale.	Cq		200-225	Sandy shale. Beckley coal at the top, and Quinnimont coal at the base.	Rolling land east of Beckley and Pemberton. Steep slopes along Guyandot River.
	Clark formation.	Cc		350-375	Sandstone and shale with Pocahontas coal seam near the middle of the formation.	Rolling land east of Beckley and Barn. Steep slopes along Guyandot River.
	Pocahontas formation.	Cph		325-350		
	Thurmond formation.	Ct		600-725		
	Bluestone formation.	Cbl		400-700	Red and green shale and soft green sandstone.	Valleys and ridges southeast of Flat Top Mountain. Soil good.
	Princeton conglomerate.	Cpr		0-50	Coarse conglomerate.	Cliffs along Bluestone River.
	Hinton formation.	Chn		500+	Red and green shale with beds of sandstone and impure limestone.	Steep slopes along Bluestone River. Soil good.

NAMES OF FORMATIONS.

PERIOD.	NAMES AND SYMBOLS USED IN THIS FOLIO.		MARIUS R. CAMPBELL: POCAHONTAS FOLIO, U. S. GEOLOGICAL SURVEY, 1896.	MARIUS R. CAMPBELL: CHARLESTON FOLIO, U. S. GEOLOGICAL SURVEY, 1901.	MARIUS R. CAMPBELL AND WALTER C. Mendenhall: GEOLOGIC SECTION ALONG NEW AND KANAWHA RIVERS IN WEST VIRGINIA, SEVENTEENTH ANNUAL REPORT, U. S. GEOLOGICAL SURVEY, 1896.	I. C. WHITE: WEST VIRGINIA GEOLOGICAL SURVEY, VOL. I, 1892, AND BULL. 65, U. S. GEOLOGICAL SURVEY, 1891.	W. B. ROGERS: GEOLOGY OF THE VIRGINIAS, 1884.
CARBONIFEROUS	Charleston sandstone.	Cch		Charleston sandstone.	Charleston sandstone.	Mahoning sandstone. (Elk River series.)	Lower Barren group. XIV.
	Kanawha formation.	Ck		Kanawha formation.	Kanawha formation.	Allegheny River Coal series.	Lower Coal group. XIII.
	(Nuttall sandstone lentil.)	(Csn)	Sewell formation.	Sewell formation.	Fayette sandstone.	Homewood sandstone.	Great Conglomerate or Conglomerate Coal group. XII.
	Sewell formation.	Cs			Sewell formation.		
	(Harvey conglomerate lentil.)	(Csh)					
	(Guyandot sandstone lentil.)	(Csg)					
	Raleigh sandstone.	Cr	Raleigh sandstone.		Raleigh sandstone.	Pottsville conglomerate.	
	Quinnimont shale.	Cq	Quinnimont shale.				
	Clark formation.	Cc	Clark formation.		Royal formation.		
	Pocahontas formation.	Cph	Pocahontas formation.				
	Thurmond formation.	Ct					
	Bluestone formation.	Cbl	Bluestone formation.				
	Princeton conglomerate.	Cpr	Princeton conglomerate.		Princeton conglomerate.	Mauch Chunk red shales.	Greenbrier shales. XI.
	Hinton formation.	Chn	Hinton formation.		Hinton formation.		

MARIUS R. CAMPBELL,
Geologist.

COAL-SECTION SHEET 1

SECTIONS OF COAL SEAMS IN THE RALEIGH QUADRANGLE AND VICINITY

SCALE: 1 INCH = 10 FEET

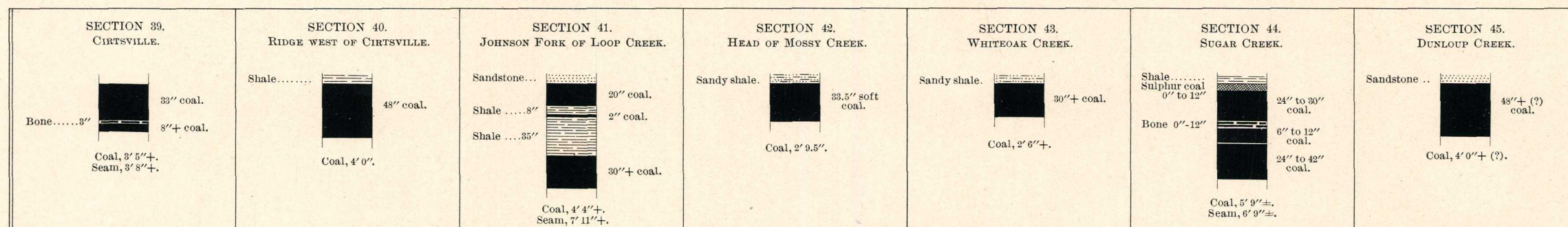
DIVISION A

DIAGRAM SHOWING
SUBDIVISIONS OF THE QUADRANGLE

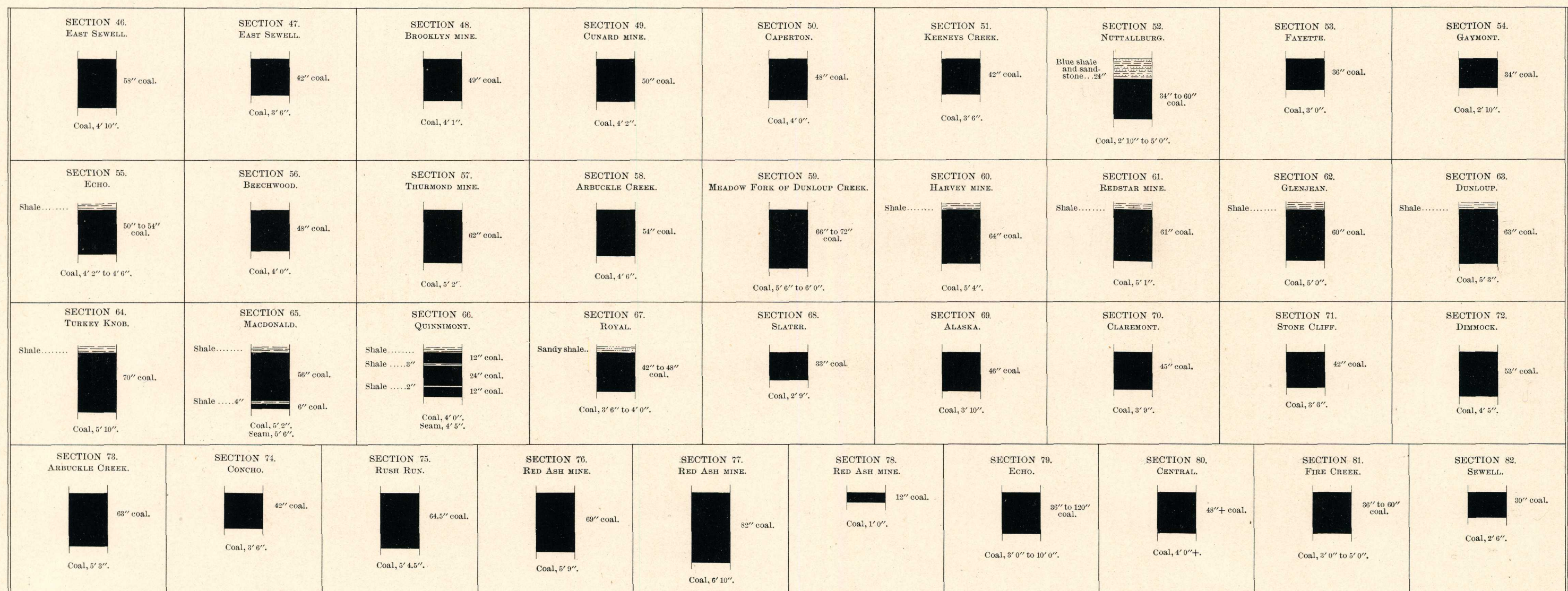
A	B	C
D	E	F
G	H	I



DIVISION B



DIVISION C

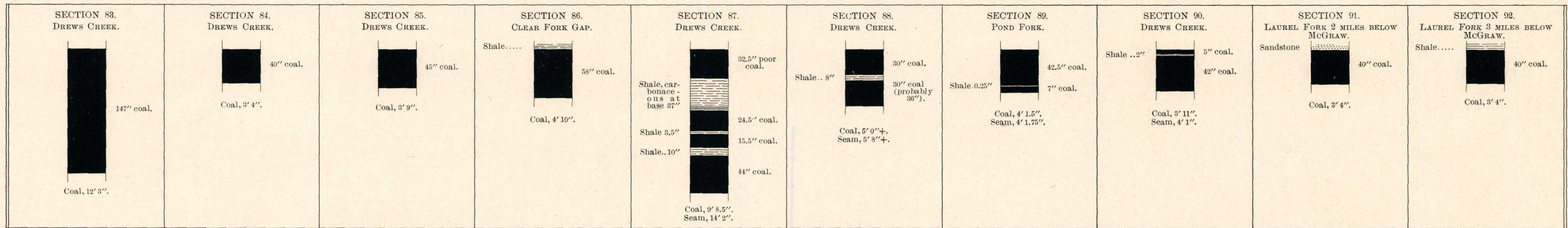


COAL-SECTION SHEET 2

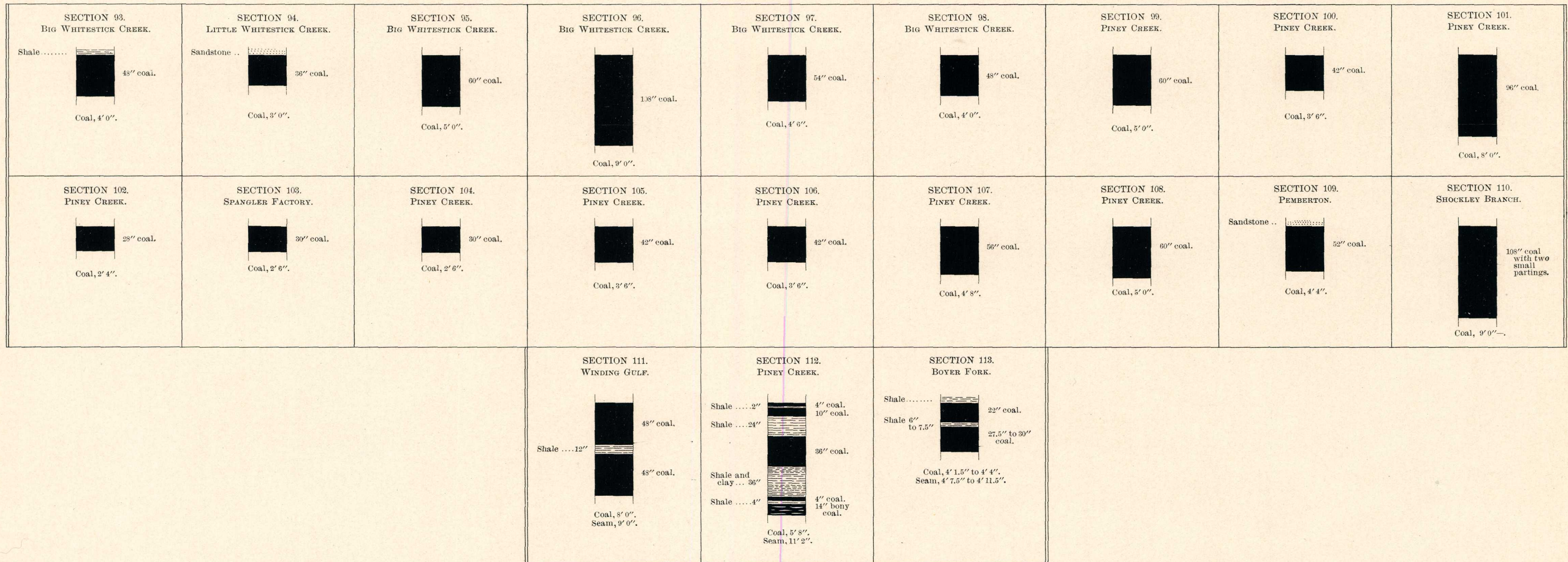
SECTIONS OF COAL SEAMS IN THE RALEIGH QUADRANGLE AND VICINITY

SCALE: 1 INCH=10 FEET

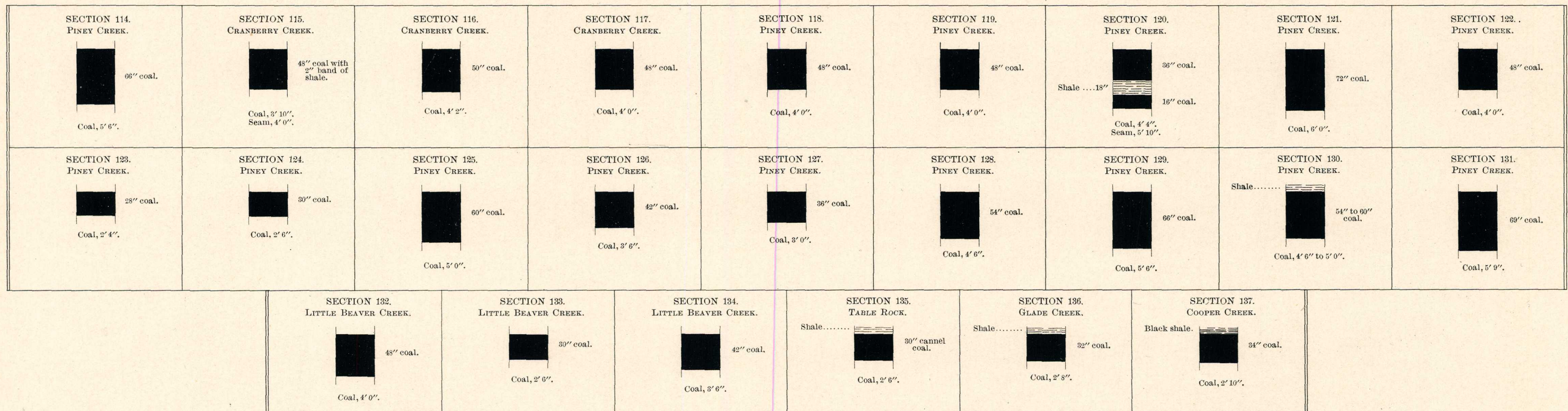
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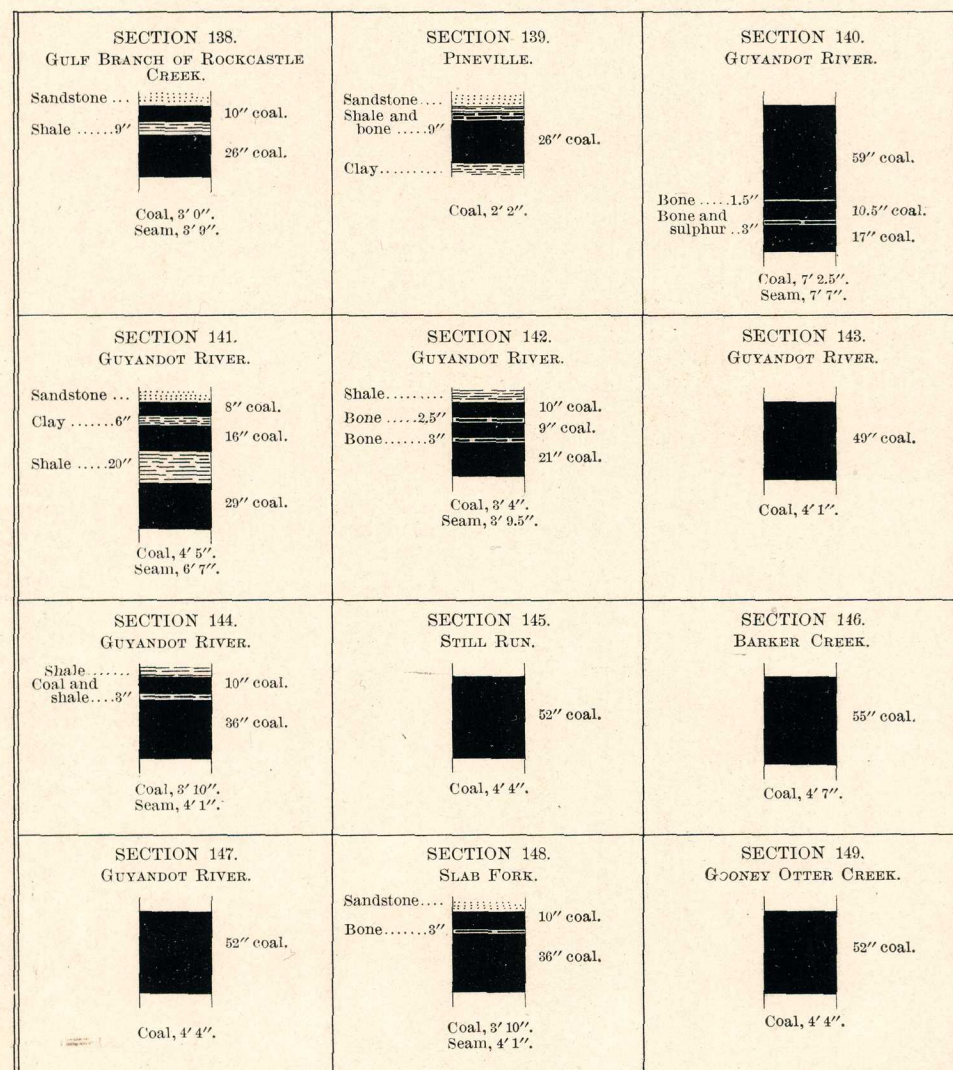
DIVISION E



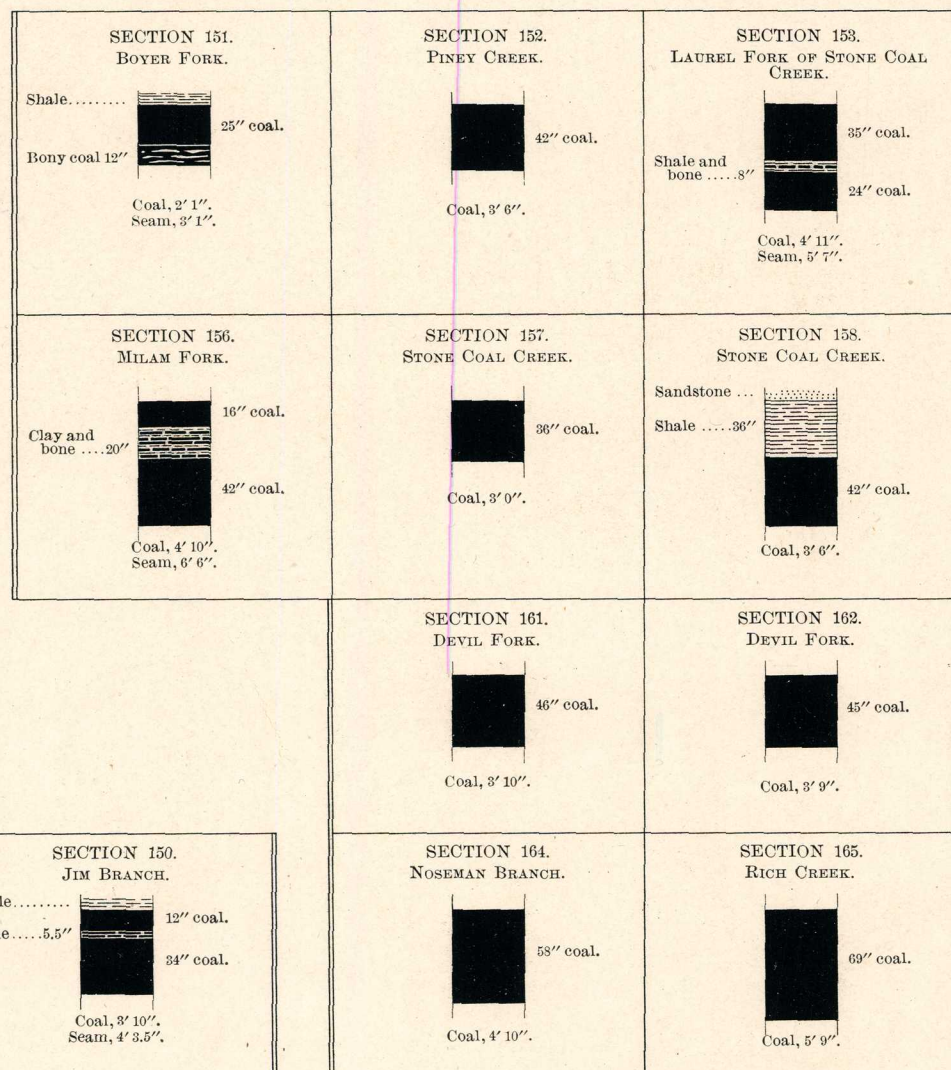
DIVISION F



DIVISION G



DIVISION H



DIVISION I

